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FORM PTO-1449 (Modified)		Attorney Docket No.: 20174-000230US	Application No.: 09/605,520
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: MARC A. UNGER et al.	
		Filing Date: June 27, 2000	Group: Unassigned
<input checked="" type="checkbox"/> AU	Muller et al., "Surface-micromachined microoptical elements and systems," <i>IEEE</i> (August 1998) Vol. 86, No. 8, pp. 1705-1720.	RECEIVED SEP 11 2000 GEOGRAPHIC 1700	
<input checked="" type="checkbox"/> AV	Schasfoort et al., "Field-effect flow control for microfabricated fluidic networks," <i>Science</i> , (29 October 1999) Vol. 286, pp. 942-945.		
<input checked="" type="checkbox"/> AW	Tufte et al., "Silicon diffused-element piezoresistive diaphragms," <i>J. Appl. Phys.</i> (November 1962) Vol. 33, No. 11, pp. 3322-3327.		
<input checked="" type="checkbox"/> AX	Washizu et al., "Molecular dielectrophoresis of biopolymers," <i>IEEE Transactions on Industry Applications</i> , (July/August 1994) Vol. 30, No. 4, pp. 835-843.		
<input checked="" type="checkbox"/> AY	Xia et al., "Complex optical surfaces formed by replica molding against elastomeric masters," <i>Science</i> (July 1996) Vol. 273, pp. 347-349.		
<input checked="" type="checkbox"/> AZ	Xia et al., "Soft Lithography," <i>Angew. Chem. Int. Ed.</i> (1998) Vol. 37, pp. 551-575.		
<input checked="" type="checkbox"/> BA	Yazdi et al., "Micromachined inertial sensors," <i>IEEE</i> , (August 1998) Vol. 86, No. 8, pp. 1640-1659.		
<input checked="" type="checkbox"/> BB	Young et al., "Contoured elastic-membrane microvalves for microfluidic network integration," <i>J. Biomechanical Engineering</i> , (February 1999) Vol. 121, pp. 2-6.		
<input checked="" type="checkbox"/> BC	Hornbeck et al., "Bistable Deformable Mirror Device," <i>Spatial Light Modulators and Applications 1988 Technical Digest Series, Volume 8</i> , Postconference Edition, Summaries of papers presented at the Spatial Light Modulators and Applications Topical Meeting, June 15-17, 1988, Optical Society of America, pp. 170-110.		
EXAMINER <i>Ala Olan</i>		DATE CONSIDERED 12/23/03	

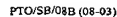
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FORM PTO-1449 (Modified)		Attorney Docket No.: 20174-000230US		Application No.: 09/605,520	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)					
Reference Designation		U.S. PATENT DOCUMENTS		Page 1 of 2	
Examiner Initial	Document No.	Date	Name	Class	Sub-class
					Filing Date (If Appropriate)
FOREIGN PATENT DOCUMENTS					
Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
AB	Brechtel et al., "Control of the electroosmotic flow by metal-salt-containing buffers," <i>J Chromatography A</i> , (1995), 716:97-105.				
AC	Buchailot, et al., "Silicon nitride thin films Young's modulus determination by an optical non-destructive method," <i>Jpn. J. Appl. Phys.</i> , (1995) Vol. 36, Pt. 2, No. 6B, pp. L794-L797.				
AD	Delamarche et al., "Patterned delivery of immunoglobulins to surfaces using microfluidic networks," <i>Science</i> , (2 May 1997) Vol. 276, pp. 779-781.				
AE	Duffy et al., "Rapid prototyping of microfluidic switches in poly(dimethyl siloxane) and their actuation by electroosmotic flow," <i>J. Micromech. Microeng.</i> , (1999) Vol. 9, pp. 211-217.				
AF	Effenhauser et al., "Integrated capillary electrophoresis on flexible silicone microdevices: Analysis of DNA restriction fragments and detection of single DNA molecules on microchips," <i>Anal. Chem.</i> , (1997) Vol. 69, pp. 3451-3457.				
AG	Effenhauser et al., "Integrated chip-based capillary electrophoresis," <i>Electrophoresis</i> , (1997), Vol. 18, pp. 2203-2213.				
AH	Fahrenberg et al., "A microvalve system fabricated by thermoplastic molding," <i>J. Micromech. Microeng.</i> , (1995) Vol. 5, pp. 169-171.				
AI	Fu et al., "A microfabricated fluorescence-activated cell sorter," <i>Nature Biotechnology</i> , (November 1999) Vol 17, pp. 1109-1111.				
AJ	Goll et al., "Microvalves with bistable buckled polymer diaphragms," <i>J. Micromech. Microeng.</i> , (1996) Vol. 6, pp. 77-79.				
AK	Harrison et al., "Micromachining a miniaturized capillary electrophoresis-based chemical analysis system on a chip," <i>Science</i> , (13 August 1993) Vol. 261, pp. 895-897.				
AL	Hosokawa et al., "Handling of Picoliter liquid samples in a poly(dimethylsiloxane)-based microfluidic device," <i>Anal. Chem.</i> , (October 1999) Vol. 71, No. 20, pp. 4781-4785.				
AM	Ikuta et al., "Three dimensional micro integrated fluid systems (MIFS) fabricated by stereo lithography," <i>IEEE Kyushu Institute of Technology</i> , (1994) pp. 1-6.				
AN	Jacobson et al., "High-speed separations on a microchip," <i>Anal. Chem.</i> , (April 1994) Vol. 66, No. 7, pp. 1114-1118.				
AO	Jacobson et al., "Microfluidic devices for electrokinetically driven parallel and serial mixing," <i>Anal. Chem.</i> , (October 1999) Vol. 71, No. 20, pp. 4455-4459.				
AP	Kenis et al., "Microfabrication inside capillaries using multiphase laminar flow patterning," <i>Science</i> , (2 July 1999) Vol. 285, pp. 83-85.				
AQ	Lin et al., "Free-space micromachined optical switches for optical networking," <i>IEEE J. Selected Topics in Quantum Electronics</i> , (January/February 1999) Vol. 5, No. 1, pp. 4-9.				
AR	Lötters et al., "The mechanical properties of the rubber elastic polymer polydimethylsiloxane for sensor applications," <i>J. Micromech. Microeng.</i> , (1997) Vol. 7, pp. 145-147.				
AS	Lucy et al., "Characterization of the cationic surfactant induced reversal of electroosmotic flow in capillary electrophoresis," <i>Anal. Chem.</i> , (1996) Vol. 68, pp. 300-305.				
AT	Marx et al., "Applications of dielectrophoresis in biotechnology," <i>Tibtech</i> , (October 1997) Vol. 15, pp. 426-432.				

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

***Complete if Known***

<b>Application Number</b>	09/605,520
<b>Filing Date</b>	June 27, 2000
<b>First Named Inventor</b>	Unger
<b>Art Unit</b>	1763
<b>Examiner Name</b>	Allan W. Olsen
<b>Attorney Docket Number</b>	20174C-000230US

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Sheet	1	of	1
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## U.S. PATENT DOCUMENTS+

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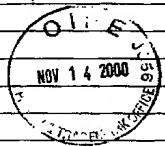
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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FORM PTO-1449 (Modified)	Attorney Docket No.: 20174-000230US	Application No.: 09/605,520
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicant: MARC A. UNGER et al.	
	Filing Date: June 27, 2000	Group: 1772

Reference Designation			U.S. PATENT DOCUMENTS			Page 1
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
<i>AW</i> 1	5,705,018	01/06/98	Hartley	156	345	
<i>AW</i> 2	6,007,309	12/28/99	Hartley	417	322	
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FOREIGN PATENT DOCUMENTS						
	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
<i>AW</i> 3	EP0703364A1	03/27/96	EPQ and English Translation of Abstract and Claims	E04B	19/00	
14						
15						
16						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
<i>AW</i> 17	XP-002149046, Ullmann's Encyclopedia of Industrial Chemistry, Sixth Edition, 1999 Electronic Release, 6 pages.
<i>AW</i> 18	XP-000849014, "Patterning Electroluminescence Materials with Feature Sizes as Small as 5 µm Using Elastomeric Membranes as Masks for Dry Lift-Off", David C. Duffy et al., Advanced Materials 1999, 11, No. 7, pp. 546-552.
<i>AW</i> 19	XB-0006683891, "Elastomeric High Valves", Dong Qiu et al., Advanced Materials 1997, 9, No. 5, pp. 407-410.
<i>AW</i> 20	"Micromachines on the march", Bryzek et al., 8045 IEEE Spectrum, 31(1994) May, No. 5, New York, pp. 20-31.

12/23/03

EXAMINER <i>Alto W. Olan</i>	DATE CONSIDERED <i>3/22/03 / 12/23/03</i>
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Application Number	09/605,520
Filing Date	June 27, 2000
First Named Inventor	Unger
Group Art Unit	1746
Examiner Name	Olsen, A.
Attorney Docket Number	20174C-000230US

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Attorney Docket Number	20174C-000230US
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Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (If known)			
<i>Agp</i>	AA	6,155,282		Zachary et al.	12-05-2000	
	AB	6,043,080		Lipshutz et al.	03-28-2000	
	AC	5,875,817		Carter	03-02-1999	
	AD	5,681,024		Liseo et al.	10-28-1997	
	AE	5,346,372		Naruse et al.	09-13-1994	
	AF	5,164,558		Huff et al.	11-17-1992	
	AG	5,088,515		Kamen	02-18-1992	
	AH	4,434,704		Surjaatmadja	03-06-1984	
	AI	4,245,673		Bouteille et al.	01-20-1981	
	AJ	4,046,159		Pegourie	09-06-1977	
	AK	3,747,628		Holster et al.	07-24-1973	
<i>How</i>	AL	3,570,515		Kinner	03-16-1971	

<b>FOREIGN PATENT DOCUMENTS</b>								
<b>Examiner Initials*</b>	<b>Cite No.</b>	<b>Foreign Patent Document</b>			<b>Name of Patentee or Applicant of Cited Document</b>	<b>Date of Publication of Cited Document MM-DD-YYYY</b>	<b>Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear</b>	<b>1°</b>
		<b>Office<sup>3</sup></b>	<b>Number<sup>4</sup></b>	<b>Kind Code<sup>6</sup> (if known)</b>				
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**Complete If Known**

Application Number	09/605,520
Filing Date	June 27, 2000
First Named Inventor	Unger
Group Art Unit	1746
Examiner Name	Olsen, A.
Attorney Docket Number	20174C-000230US

*(use as many sheets as necessary)*

Sheet	2	of	2
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Initials \*Cite  
No.<sup>1</sup>

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

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**AO**

Quake et al., "From Micro- to Nanofabrication with Soft Materials," *Science*, 290:1536-1540 (2000).

Unger et al., "Monolithic Microfabricated Valves and Pumps by Multilayer Soft Lithography," *Science*, 288:113-116 (2000).

Van de Pol et al., "A Thermo-Pneumatic Actuation Principle for A Microminature Pump and Other Micromechanical Devices," *Sensors and Actuators*, 17:139-143 (1989)

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